MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

Hurst Awning Co., Inc.
6865 NW 36th Avenue
Miami, FL 33147

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.050" Aluminum Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 08-133, titled " 0.050" Aluminum Storm Panel", sheets 1 through 5 of 5, prepared by Knezevich Associates, dated July 08, 2008, last revision #2 dated March 15, 2012, signed and sealed by V. J. Knezevich, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 08-0717.03** and consists of this page 1, evidence submitted pages E-1, E-2, E-3 & E-4 as well as approval document mentioned above.
The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

MIAMI-DADE COUNTY APPROVED

Helmy A. Makar
08/09/2012

NOA No. 12-0410.16
Expiration Date: 08/19/2013
Approval Date: 08/09/2012

Hurst Awning Co., Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0621.06

A. DRAWINGS

1. *Drawing No. 99-109, titled " 0.050" Aluminum Storm Panel", prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E., dated June 8, 1999, last revision #1 dated July 20, 1999, sheets 1 through 4 of 4.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 0.050" aluminum storm panels, prepared by Construction Testing Corporation, Report No. CTC-99-023, dated May 14, 1999, signed and sealed by Yamil G. Kuri, P.E.*

C. CALCULATIONS

1. *Comparative Analysis, Anchor Calculations and details for 0.050" Aluminum Storm Panels, dated June 10, 1999, pages 1 through 33, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Mill Certified Inspection Report of coils, dated May 4, 1999, for Aluminum Alloy 5052-H32 by Amcrimet, with chemical composition and physical properties.*
2. *Certified Tensile Test Report by Certified Testing Laboratories, Report No. CTL-530E, dated May 13, 1999 for sample #99-023, in accordance with ASTM E8, signed and sealed by Ramish Patel, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0315.02

A. DRAWINGS

See NOA 99-0621.06

B. TESTS

See NOA 99-0621.06

C. CALCULATIONS

See NOA 99-0621.06

D. MATERIAL CERTIFICATIONS

See NOA 99-0621.06

E. STATEMENTS

See NOA 99-0621.06

Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
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F. OTHER
See NOA 99-0621.06

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0624.05

A. DRAWINGS
1. None.

B. TESTS
1. None.

C. CALCULATIONS
1. None.

D. MATERIAL CERTIFICATIONS
1. None.

E. STATEMENTS
1. Statement letter of no change, issued by Hurst Awning Co., Inc., signed by Frank Cornelius, dated 6/21/02.

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0731.15

A. DRAWINGS
1. Drawing No. 02-373, titled " 0.050" Aluminum Storm Panel", sheets 1 through 5 of 5, prepared by Knezevich & Associates, Inc., dated July 19, 2002, last revision #1 dated August 26, 2002, signed and sealed by V.J. Knezevich, P.E.

B. TESTS
1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 20 ga. Steel storm panels, prepared by Construction Testing Corporation, Report No. CTC-98-044, dated September 08, 1998, signed and sealed by Christopher G. Tyson, P.E.

C. CALCULATIONS
1. Comparative Analysis, Anchor Calculations and details for 0.050" Aluminum Storm Panels, dated July 22, 2002, pages 1 through 16, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.

D. MATERIAL CERTIFICATIONS
1. None.

Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-0424.01

A. DRAWINGS

1. *Drawing No. 06-342, titled " 0.050" Aluminum Storm Panel", sheets 1 through 5 of 5, prepared by Thornton-Tomasetti Group, dated April 04, 2006, last revision #0 dated April 04, 2006, signed and sealed by J. W. Knezevich, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *None.*

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #07-0322.03

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *None.*

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 08-0717.03

A. DRAWINGS

1. *Drawing No. 08-133, titled " 0.050" Aluminum Storm Panel", sheets 1 through 5 of 5, prepared by Knezevich Associates, dated July 08, 2008, last revision #1 dated August 12, 2008, signed and sealed by V. J. Knezevich, P.E.*

Hemy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0410.16
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 0.050" Aluminum Storm Panels, prepared by Construction Testing Corporation, Report No. CTC-08-008, dated June 11, 2008, signed and sealed by Yamil G. Kuri, P.E.*

C. CALCULATIONS

1. *Comparative Analysis, Anchor Calculations and details for 0.050" Aluminum Storm Panels, dated July 09, 2008, pages 1 through 36, prepared by Knezevich Associates, Consulting Engineers, signed and sealed by V.J. Knezevich, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *None.*

8. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 08-133, titled " 0.050" Aluminum Storm Panel", sheets 1 through 5 of 5, prepared by Knezevich Associates, dated July 08, 2008, last revision #2 dated March 15, 2012, signed and sealed by V. J. Knezevich, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 0.050" Aluminum Storm Panels, prepared by Blackwater Testing, Inc., Report No. AA-12-005, dated April 02, 2012, signed and sealed by Yamil G. Kuri, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATION:

1. *None.*

Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
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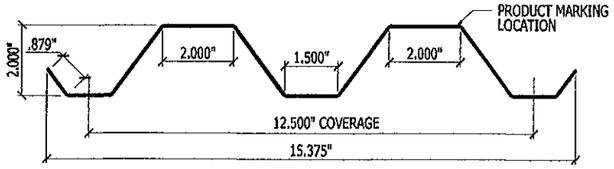
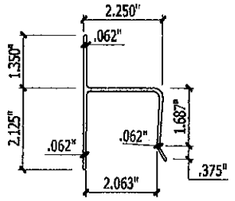
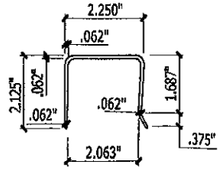


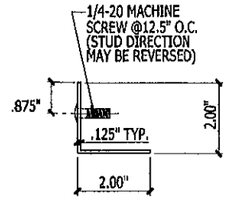
1 **STORM PANEL**
SCALE: 3" = 1'-0"



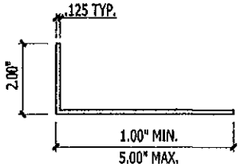
2 **"h" HEADER**
SCALE: 3" = 1'-0"



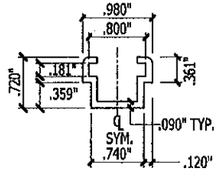
3 **"U" HEADER**
SCALE: 3" = 1'-0"



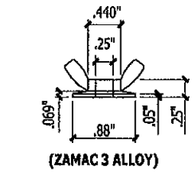
4 **STUD ANGLE**
SCALE: 3" = 1'-0"



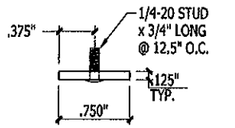
5 **ANGLE**
SCALE: 3" = 1'-0"



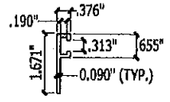
6 **C / SLIDE TRACK**
SCALE : HALF SIZE



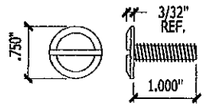
7 **WING NUT**
SCALE : HALF SIZE



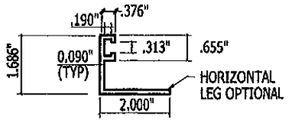
8 **STUDDED STRAP (SLIDER)**
SCALE : HALF SIZE



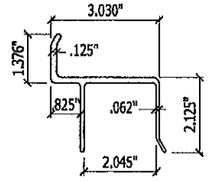
9 **"F" TRACK**
SCALE: 3" = 1'-0"



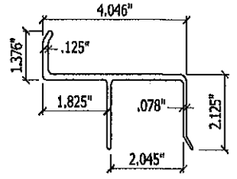
10 **1/4"-20 SIDEWALK BOLT FOR SLIDE TRACK**
SCALE : HALF SIZE



11 **E-TRACK**
SCALE: 3" = 1'-0"



12 **NOMINAL 1" BUILD-OUT HEADER**
SCALE: 3" = 1'-0"

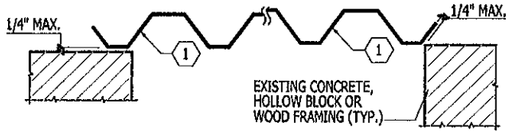


13 **NOMINAL 2" BUILD-OUT HEADER**
SCALE: 3" = 1'-0"

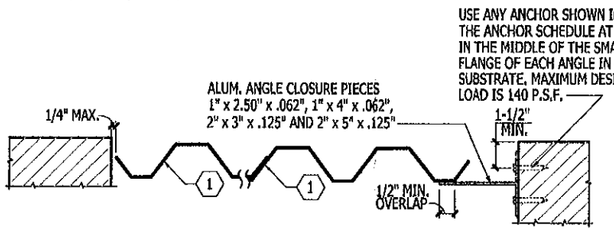
GENERAL NOTES:

1. THESE EVALUATION DOCUMENTS REPRESENT A SHUTTER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL SECTION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE 2010.
2. NO ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD LAG SCREW DESIGN.
3. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7-10, A DIRECTIONALITY FACTOR OF Kd = 0.85 SHALL BE USED.
4. THESE EVALUATION DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
5. USE OF THESE EVALUATION DOCUMENTS COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
6. THESE EVALUATION DOCUMENTS, ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
7. ANY MODIFICATIONS OR ADDITIONS TO THESE EVALUATION DOCUMENTS WILL VOID THESE EVALUATION DOCUMENTS.
8. WHEN THE SITE CONDITIONS DEVIATE FROM THESE EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
   A. REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
   B. REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL SECTION.

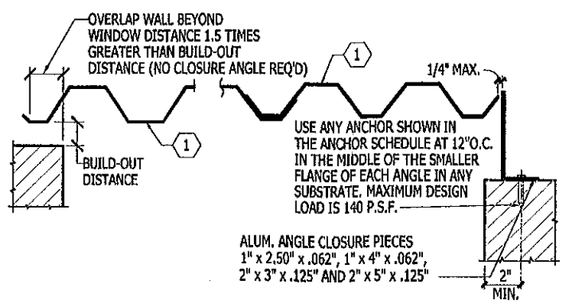
   WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
9. PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MIN OF ONE MARKING PER PANEL AND SHALL BE LABELED AS FOLLOWS:
   HURST AWNING CO., INC.
   MIAMI, FLORIDA
   MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
10. STORM PANELS SHALL BE 5052-H32 WITH THE FOLLOWING BARE METAL THICKNESS AND MECHANICAL PROPERTIES: NOMINAL 0.050" (0.0485" MIN. BARE METAL THICKNESS), WITH A MIN. Fy= 29.2 KSI
11. ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N.
12. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
13. TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE, EXCEPT FOR "h" AND "U" HEADER MOUNTING CONDITIONS.



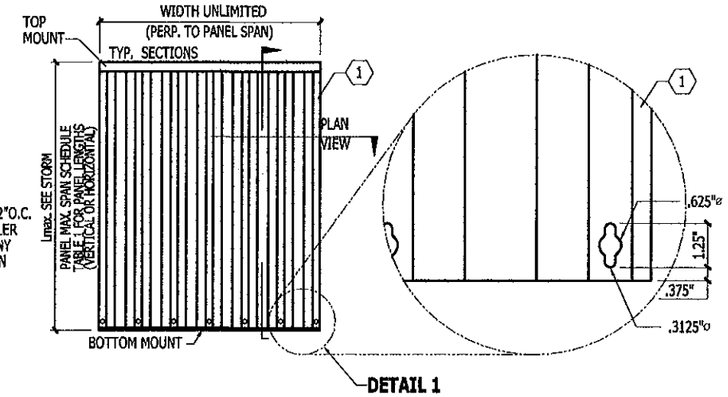
WALL / DIRECT MOUNT CLOSURE DETAIL (PLAN VIEW)
SCALE: 1-1/2" = 1'-0"



TRAP MOUNT CLOSURE DETAIL (PLAN VIEW)
SCALE: 1-1/2" = 1'-0"



BUILD-OUT MOUNT CLOSURE DETAIL (PLAN VIEW)
SCALE: 1-1/2" = 1'-0"



TYPICAL VERTICAL MOUNT ELEVATION
N.T.S.

DETAIL 1
SCALE : 3" = 1'-0"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0410.16
Expiration Date 08/19/2013
By
Miami Dade Product Control

KNEZEVICH ASSOCIATES
Consulting Engineers * COA 27989
2590 S.W. 105th Terrace * Davie, Florida 33324
T (954) 821-6933 * VJ@Knezevich-Associates.com
www.Knezevich-Associates.com

0.050" ALUMINUM STORM PANEL

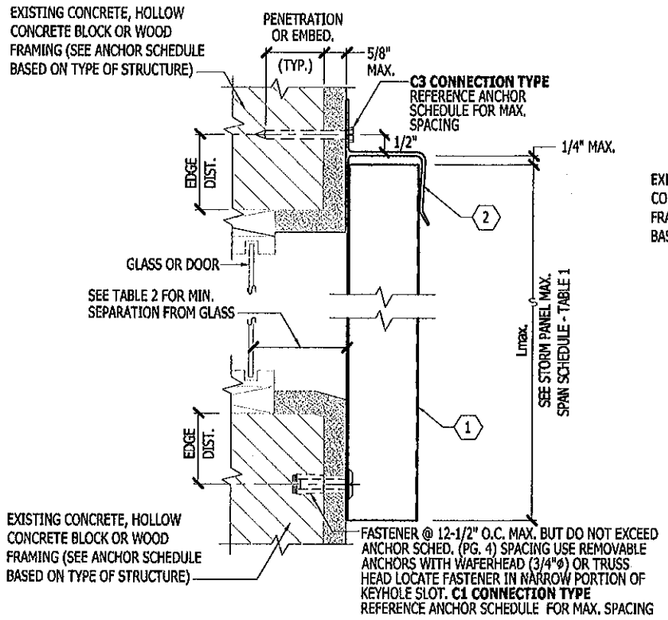
Manufacturers of Hurricane & Security Protection Products
6865 N.W. 36th Avenue
Miami, Florida 33147
Phone: (305) 635-0900
Toll Free: (800) 327-0905
Fax: (305) 634-9078

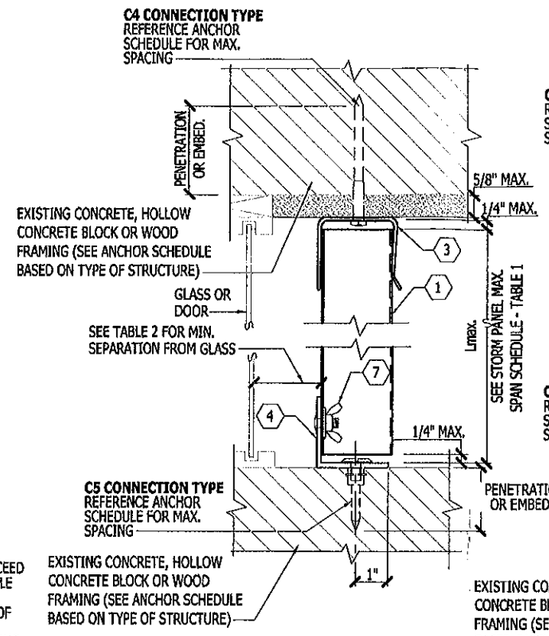
HURST AWNING COMPANY, INC. "QUALITY SERVICE SINCE 1957"

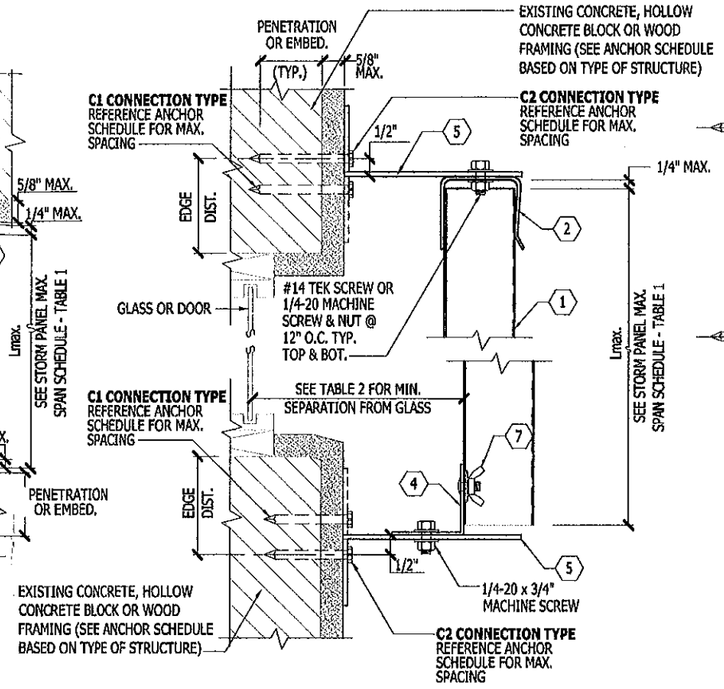
rev	date	by	description
0	07/08/2008	VJK	PREVIOUSLY DRAWING NO. 05-32
1	09/12/2008	VJK	COUNTY COMMENTS
2	02/15/2012	VJK	FLORIDA BUILDING CODE CHANGES

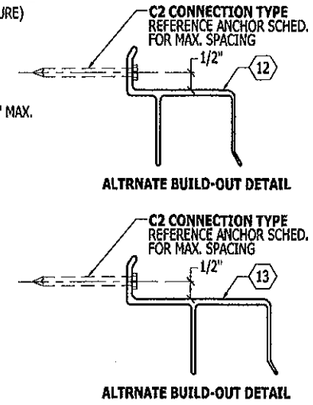
V.J. Knezevich
Professional Engineer
Fl. License No. PE 0010983
MAR. 15 2012

drawn by: ARV
scale: AS NOTED
date: 07/08/2008
drawing no.: 08-133
sheet 1 of 5









PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0410.16
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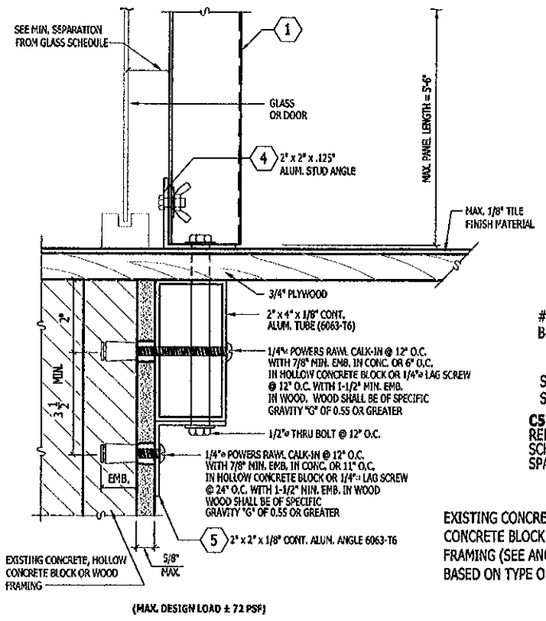
Miami Dade Product Control

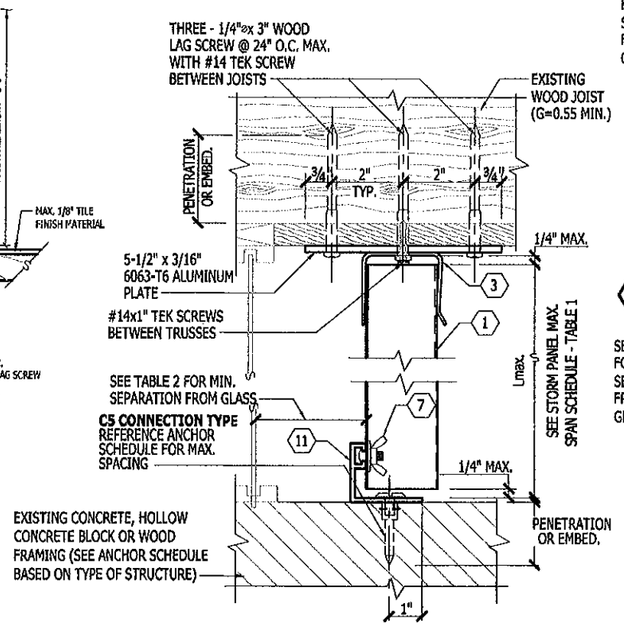
KNEZEVICH ASSOCIATES
Consulting Engineers * COA 27989
2590 S.W. 105th Terrace * Davie, Florida 33324
T (954) 821-6933 * VJ@Knezevich-Associates.com
www.Knezevich-Associates.com

A WALL MOUNT SECTION
SCALE : 3" = 1'-0"

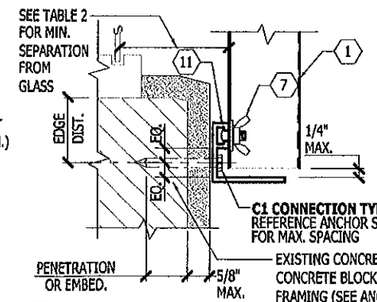


D "PASS THRU" DETAIL
SCALE : 3" = 1'-0"

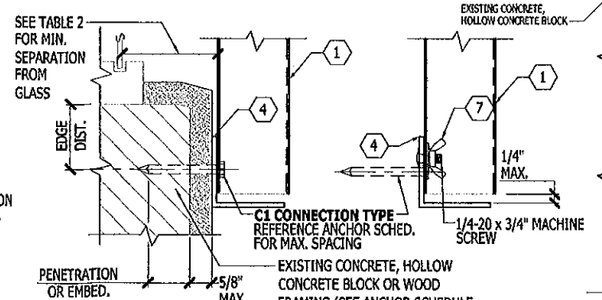
B CEILING/FLOOR MOUNT SECTION
SCALE : 3" = 1'-0"



E CEILING/FLOOR MOUNT SECTION
SCALE : 3" = 1'-0"



F2 WALL MOUNT SILL
SCALE : 3" = 1'-0"



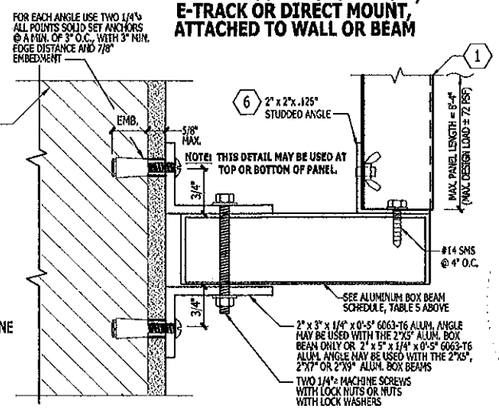
F1 WALL MOUNT SILL
SCALE : 3" = 1'-0"

C WALL BUILD-OUT MOUNT SECTION
SCALE : 3" = 1'-0"

TABLE 5
ALUMINUM BOX BEAM SCHEDULE

BOX BEAM SIZE (IN.)	MAX. DESIGN LOAD (PSF)	BEAM SPAN (FT-IN)	SHUTTER SPAN (FT-IN)	THRU BOLTS REQ'D	NO. OF 1/4"ø ALL POINTS ANCHORS PER ANGLE	LENGTH OF EACH ANGLE REQUIRED (IN.)
2" x 5" (Tw = .125", Tf = .125")	72.0	7'-0"	8'-4"	2	2	5"
2" x 7" (Tw = .125", Tf = .125")	72.0	8'-8"	8'-4"	2	2	5"
2" x 9" (Tw = .125", Tf = .125")	72.0	10'-3"	8'-4"	2	2	5"

HEADER MUST BE STUD ANGLE, E-TRACK OR DIRECT MOUNT, ATTACHED TO WALL OR BEAM



K STORM PANEL SUPPORT BEAM
SCALE: 3" = 1'-0"

0.050" ALUMINUM STORM PANEL

Manufacturers of Hurricane & Security Protection Products
6865 N.W. 36th Avenue
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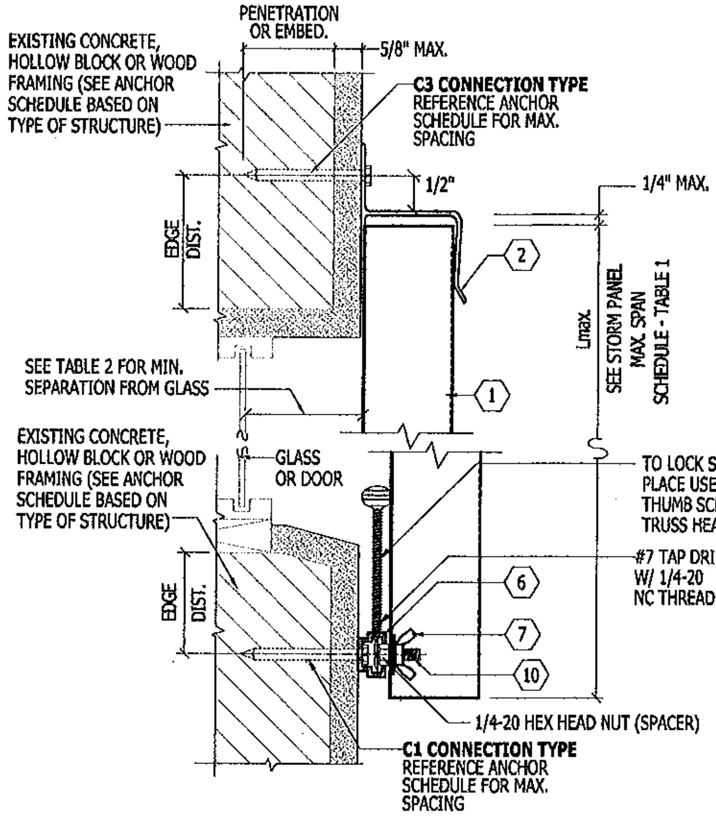
HURST AWNING COMPANY, INC. "QUALITY SERVICE SINCE 1957"

revisions			
no	date	by	description
-0	07/08/2008	VJK	PREVIOUSLY DRAWING NO. 08-242
-1	02/22/2009	VJK	COUNTY COMMENTS
-2	03/15/2012	VJK	FLORIDA BUILDING CODE CHANGES

V.J. Knezevich
Professional Engineer
FL License No.: PE 0010983
MAR 15 2012

drawn by: ARV
scale: AS NOTED
date: 07/08/2008
drawing no.: 08-133
sheet 2 of 5



G WAFER HEAD BOLT ASSEMBLY

SCALE: 3" = 1'-0"

1/4-20 NUT IS NOT NECESSARY IF NOT USED AS INSIDE MOUNT

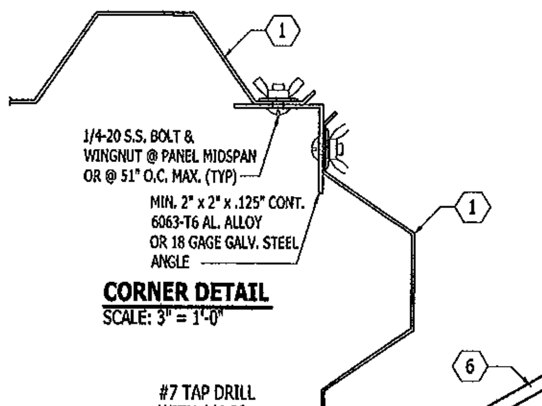
TABLE 2			
MINIMUM STORM PANEL SEPARATION FROM GLASS SCHEDULE			
DESIGN LOAD(W) (PSF)	**ACTUAL SHUTTER SPAN (FT - IN)**	**MINIMUM SEPARATION FOR INSTALLATIONS 30' OR LESS ABOVE GRADE (INCHES)**	**MINIMUM SEPARATION FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)**
35.0	7 - 0	2-3/4	1-1/2
	8 - 6	3	2
	10 - 6	3-3/4	3
40.0	7 - 0	2-3/4	1-1/2
	8 - 6	3	2
	10 - 1	3-3/4	3
50.0	7 - 0	2-3/4	1-3/4
	8 - 6	3	2-1/4
	9 - 4	3-3/4	2-3/4
60.0	6 - 0	2-3/4	1-1/2
	7 - 0	2-3/4	1-3/4
	8 - 6	3	2-1/2
70.0	6 - 0	2-3/4	1-1/2
	7 - 0	2-3/4	1-7/8
	7 - 11	3-3/4	2-3/8

NOTES:

1. ENTER TABLE 1 WITH NEGATIVE DESIGN LOAD TO DETERMINE MAX. PANEL SPAN. POSITIVE LOADS LESS THAN OR EQUAL TO THE NEGATIVE LOAD ARE ACCEPTABLE.
2. ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. SEPARATION FROM GLASS.
3. FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

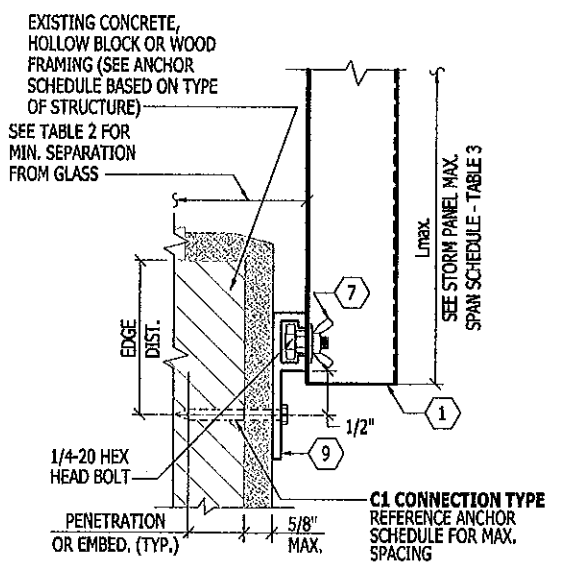
TABLE 1	
STORM PANEL SPAN SCHEDULE	
NEGATIVE DESIGN LOAD W (PSF)	**FOR ALL MOUNTING CONDITIONS EXCEPT F-TRACK SEE DETAIL H** — **L MAX. (FT-IN)**
35.0	10 - 6
41.6	10 - 1
45.0	9 - 10
50.0	9 - 4
55.0	8 - 11
60.0	8 - 6
62.0	8 - 5
65.0	8 - 2
70.0	7 - 11
72.0	7 - 9
75.0	7 - 8
80.0	7 - 5
90.0	7 - 0
100.0	6 - 3
110.0	5 - 8
120.0	5 - 3
130.0	4 - 10
140.0	4 - 6
150.0	4 - 2
160.0	3 - 11
170.0	3 - 8
180.0	3 - 6
190.0	3 - 3
200.0	3 - 1

TABLE 3	
MAX. STORM PANEL SPAN SCHEDULE FOR F-TRACK SILL WITH ANY HEADER	
DESIGN LOAD W (PSF)	**L MAX. (FT-IN)**
70.0	7 - 11
80.0	7 - 5
90.0	7 - 0



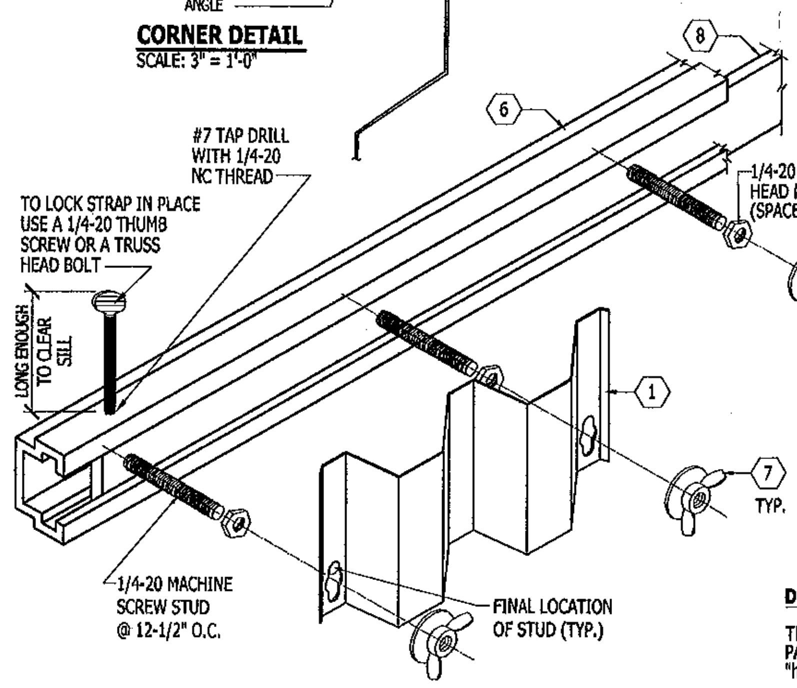
CORNER DETAIL

SCALE: 3" = 1'-0"



H WALL MOUNT F-TRACK SECTION

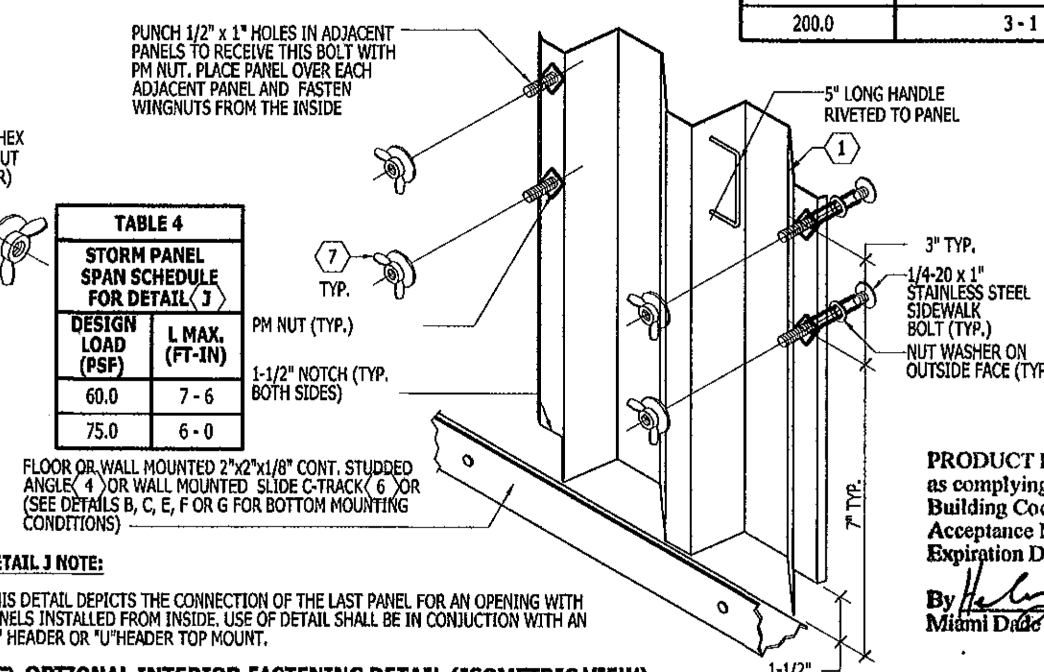
SCALE: 3" = 1'-0"



I 3/4" STRAP ASSEMBLY (SILL ONLY - ISOMETRIC VIEW)

N.T.S. SIDEWALK BOLT ASSEMBLY FOR G SIMILAR (NO STRAP)

TABLE 4	
STORM PANEL SPAN SCHEDULE FOR DETAIL J	
DESIGN LOAD (PSF)	**L MAX. (FT-IN)**
60.0	7 - 6
75.0	6 - 0



DETAIL J NOTE:

THIS DETAIL DEPICTS THE CONNECTION OF THE LAST PANEL FOR AN OPENING WITH PANELS INSTALLED FROM INSIDE. USE OF DETAIL SHALL BE IN CONJUCTION WITH AN "h" HEADER OR "U"HEADER TOP MOUNT.

J OPTIONAL INTERIOR FASTENING DETAIL (ISOMETRIC VIEW)

N.T.S.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0410.16
Expiration Date 08/19/2013
By [signature]
Miami Dade Product Control

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revisions

no	date	by	description
1	07/08/2008	VJK	PREVIOUSLY DRAWING NO. 05-342
2	08/12/2008	VJK	COUNTY COMMENTS
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V.J. Knezevich
Professional Engineer
FL License No.: PE 0010983
MAR 15 2012

drawn by ARV | scale AS NOTED
date 07/08/2008
drawing no. **08-133**
sheet 3 of 5

ANCHOR SCHEDULE FOR CONCRETE

MAXIMUM FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

MIN. 1" EDGE DISTANCE

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	SPANS UP TO 5'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 8'-8" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-6" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
1/4"ø ITW TAPCON WITH 1-3/4" MIN. EMBEDMENT (MIN. 3,192 P.S.I. CONCRETE)	36.0	16	16	16	10	11	16	16	10	6	6.25	16	16	7	5	5
	48.0	16	16	16	8	8	16	16	6.25	4	5	16	14	5	3	4
	63.0	16	16	9	6	6.25	16	10	4	3	3	16	6.25	3	3	3
	75.0	16	16	7	5	5	16	6.25	3	3	3	16	6.25	3	3	3
	200.0	16	6.25	3	3	3	16	6.25	3	3	3	16	6.25	3	3	3
* 1/4"ø ELCO MALE/FEMALE "PANELMATE" WITH 1-3/4" MIN. EMBEDMENT & 1/4-20 MACHINE SCREW WITH NUT (MIN. 3,350 P.S.I. CONCRETE)	36.0															
	48.0															
	63.0															
	75.0															
	200.0															

MIN. 2-1/2" EDGE DISTANCE

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	SPANS UP TO 5'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 8'-8" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-6" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
1/4"ø ITW TAPCON WITH 1-3/4" MIN. EMBEDMENT (MIN. 3,192 P.S.I. CONCRETE)	36.0	16	16	16	16	16	16	16	11	13	15	16	16	8	10	12.5
	48.0	16	16	16	16	16	16	16	7	9	11	16	16	5	8	9
	63.0	16	16	11	12.5	15	16	11	5	7	8	16	7	4	6.25	7
	75.0	16	16	8	10	12.5	16	7	4	6.25	7	16	7	4	6.25	7
	200.0	16	7	4	6.25	7	16	7	4	6.25	7	16	7	4	6.25	7
* 1/4"ø ELCO MALE/FEMALE "PANELMATE" WITH 1-3/4" MIN. EMBEDMENT & 1/4-20 MACHINE SCREW WITH NUT (MIN. 3,350 P.S.I. CONCRETE)	36.0	16	16	16	16	16	16	16	10	12.5	15	16	16	8	10	12.5
	48.0	16	16	16	16	16	16	16	7	9	11	16	15	5	7	9
	63.0	16	16	10	12.5	15	16	11	4	7	8	16	7	4	6.25	7
	75.0	16	16	8	10	12.5	16	7	4	6.25	7	16	7	4	6.25	7
	200.0	16	7	4	6.25	7	16	7	4	6.25	7	16	7	4	6.25	7

ANCHOR SCHEDULE FOR CONCRETE

MAXIMUM FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

MIN. 2" EDGE DISTANCE

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	SPANS UP TO 5'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 8'-8" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-6" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
* 1/4"ø ALL POINTS SOLID SET ANCHOR WITH 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW (MIN. 3,000 P.S.I. CONCRETE)	36.0	16	16	16	16	16	16	16	8	11	13	16	16	6.25	9	11
	48.0	16	16	13	14	16	16	16	5	8	10	16	12	4	7	8
	63.0	16	16	8	11	13	16	8	3	6.25	7	16	5	3	5	6.25
	75.0	16	16	6.25	9	11	16	5	3	5	6.25	16	5	3	5	6.25
	200.0	16	5	3	5	6.25	16	5	3	5	6.25	16	5	3	5	6.25

MIN. 3" EDGE DISTANCE

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	SPANS UP TO 5'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 8'-8" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-6" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
* 1/4"ø ALL POINTS SOLID SET ANCHOR WITH 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW (MIN. 3,000 P.S.I. CONCRETE)	36.0	16	16	16	16	16	16	16	10	14	16	16	16	8	12	14
	48.0	16	16	16	16	16	16	16	7	11	13	16	15	5	9	11
	63.0	16	16	10	14	16	16	11	4	8	10	16	7	4	7	8
	75.0	16	16	8	12	14	16	7	4	7	8	16	7	4	7	8
	200.0	16	7	4	7	8	16	7	4	7	8	16	7	4	7	8

ANCHOR SCHEDULE FOR CONCRETE

MAXIMUM FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

MIN. 2-3/16" EDGE DISTANCE

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	SPANS UP TO 5'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 8'-8" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-6" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
5/16"ø ITW BUILDEX TAPCON XL WITH 1-3/4" MIN. EMBEDMENT (MIN. 2,899 P.S.I. CONCRETE)	36.0	16	16	16	16	16	16	16	10	15	16	16	16	8	12.5	15
	48.0	16	16	16	16	16	16	16	7	11	13	16	15	5	9	11
	63.0	16	16	10	15	16	16	11	4	8	10	16	7	4	7	9
	75.0	16	16	8	12.5	15	16	7	4	7	9	16	7	4	7	9
	200.0	16	7	4	7	9	16	7	4	7	9	16	7	4	7	9

MIN. 3-1/8" EDGE DISTANCE

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	SPANS UP TO 5'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 8'-8" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-6" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
5/16"ø ITW BUILDEX TAPCON XL WITH 1-3/4" MIN. EMBEDMENT (MIN. 2,899 P.S.I. CONCRETE)	36.0	16	16	16	16	16	16	16	11	15	16	16	16	8	12.5	15
	48.0	16	16	16	16	16	16	16	7	11	14	16	16	5	9	11
	63.0	16	16	10	15	16	16	11	5	8	10	16	7	4	7	9
	75.0	16	16	8	12.5	15	16	7	4	7	9	16	7	4	7	9
	200.0	16	7	4	7	9	16	7	4	7	9	16	7	4	7	9

ANCHOR SCHEDULE FOR WOOD

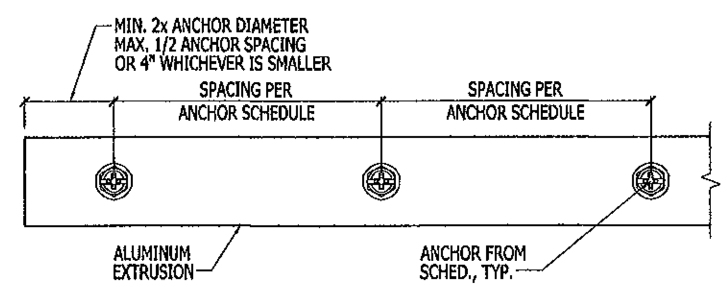
MAXIMUM FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

MIN. 3/4" EDGE DISTANCE

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	SPANS UP TO 5'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 8'-8" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-6" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
1/4"ø WOOD LAG WITH 1-3/4" MIN. THREAD PENETRATION SHEAR PARALLEL OR PERP. TO WOOD GRAIN G=0.42	36.0	16	16	16	15	16	16	16	10	9	10	16	16	7	7	8
	48.0	16	16	16	11	13	16	16	6.25	6.25	7	16	14	5	5	6.25
	63.0	16	16	9	8	10	16	10	4	5	5	16	6.25	3	4	5
	75.0	16	16	7	7	8	16	6.25	3	4	5	16	6.25	3	4	5
	200.0	16	6.25	3	4	5	16	6.25	3	4	5	16	6.25	3	4	5
1/4"ø ELCO MALE/FEMALE "PANELMATE" WITH 1-7/8" MIN. EMBEDMENT & 1/4-20 MACHINE SCREW WITH NUT	36.0	16	16	16	16	16	16	16	9	9	11	16	16	6.25	8	9
	48.0	16	16	14	12.5	14	16	16	5	7	8	16	13	4	6	7
	63.0	16	16	8	9	11	16	9	4	5	6.25	16	6	3	4	5
	75.0	16	16	6.25	8	9	16	6	3	4	5	16	6	3	4	5
	200.0	16	6	3	4	5	16	6	3	4	5	16	6	3	4	5

ANCHOR NOTES:

1. SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1.
2. AN EFFECTIVE WIND AREA OF 10 SQ. FT. SHALL BE USED FOR DETERMINING WIND LOADS FOR ANCHORS.
3. ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
4. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
5. EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW CONCRETE BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
6. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISH OR STUCCO.
8. WHERE EXISTING STRUCTURE IS POST-TENSIONED CONCRETE CONTRACTOR SHALL LOCATE CABLES PRIOR TO ANCHORING AND COORDINATE ANCHORAGE SUCH THAT CABLES ARE NOT DAMAGED.
9. WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
10. WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING. WOOD STUD SHALL BE "SPF" G=0.42 OR GREATER DENSITY. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
11. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT), U.O.N.
12. [hatched box] DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
13. * DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.
14. THE ALL POINTS SOLID SET ANCHOR MAY NOT BE USED IN CONCRETE CEILINGS OR FLOORS. ONE EXCEPTION IS THAT THIS ANCHOR MAY BE USED IN SLABS ON GRADE.



PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0410.16
Expiration Date 08/19/2013
By [signature]
Miami Dade Product Control

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revisions

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V.J. Knezevich
Professional Engineer
FL License No. PE 6010983
MAR 15 2012

drawn by: ARV | scale: AS NOTED
date: 07/08/2008
drawing no.: 08-133
sheet 4 of 5

ANCHOR SCHEDULE FOR CONCRETE BLOCK

MAXIMUM FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 1" EDGE DISTANCE															MIN. 2-1/2" EDGE DISTANCE														
		SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)					SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)				
		CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
1/4"ø ITW TAPCON WITH 1-1/4" MIN. EMBEDMENT	36.0	12	12	5	4	5	7	7			3	5	5				16	16	9	8	10	11	11	3	4	6	9	9		3	4
	48.0	9	9		3	3	5	5				4					15	15	4	6	7	8	8		3	4	7	4			3
	63.0	7	7				4					3					11	11		4	5	6.25	3			3	5				
	75.0	5	5				3					3					9	9		3	5	5					5				
	200.0	3					3					3					5					5					5				
1/4"ø ELCO ULTRACON WITH 1-1/4" MIN. EMBEDMENT	36.0	16	16	10	8	9	13	13	3	4	5	11	11		3	4	16	16	10	9	12	13	13	3	5	7	11	11		4	6
	48.0	16	16	5	6	7	10	10		3	4	8	5			3	16	16	5	7	9	10	10		4	5	8	5		3	4
	63.0	13	13	3	4	5	7	3			3	6.25					13	13	3	5	7	7	3		3	4	6.25				3
	75.0	11	11		3	4	6.25					6.25					11	11		4	6	6.25				3	6.25				3
	200.0	6.25					6.25					6.25					6.25				3	6.25				3	6.25				3

ANCHOR SCHEDULE FOR CONCRETE BLOCK

MAXIMUM FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 1" EDGE DISTANCE															MIN. 2-1/2" EDGE DISTANCE														
		SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)					SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)				
		CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
* * 1/4"ø ELCO MALE/FEMALE "PANELMATE" WITH 1-1/4" MIN. EMBEDMENT & 1/4-20 MACHINE SCREW WITH NUT	36.0	16	16	15	11	14	16	16	4	6.25	8	16	16	3	5	6.25	16	16	16	11	14	16	16	5	6.25	8	16	16	3	5	6.25
	48.0	16	16	7	8	10	14	14	3	5	6	12	7		4	5	16	16	8	8	10	15	15	3	5	6	12	7		4	5
	63.0	16	16	4	6.25	8	11	5		3	4	9	3		3	4	16	16	5	6.25	8	11	5		3	4	10	3		3	4
	75.0	16	16	3	5	6.25	9	3		3	4	9	3		3	4	16	16	3	5	6.25	10	3		3	4	10	3		3	4
	200.0	9	3		3	4	9	3		3	4	9	3		3	4	10	3		3	4	10	3		3	4	10	3		3	4
* 1/4"ø ALL POINTS SOLID SET ANCHOR WITH 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW	36.0	16	16	16	14	16	16	16	7	8	9	16	16	5	6.25	8	16	16	16	16	16	16	16	7	10	12	16	16	5	8	10
	48.0	16	16	11	10	12	16	16	4	6	7	16	10	3	5	6	16	16	12	13	16	16	16	5	7	9	16	11	3	6.25	7
	63.0	16	16	6.25	8	9	15	7	3	4	5	13	4		4	4	16	16	7	10	12	16	8	3	6	7	15	5		5	6.25
	75.0	16	16	5	6.25	8	13	4		4	4	13	4		4	4	16	16	5	8	10	15	5		5	6.25	15	5		5	6.25
	200.0	13	4		4	4	13	4		4	4	13	4		4	4	15	5		5	6.25	15	5		5	6.25	15	5		5	6.25

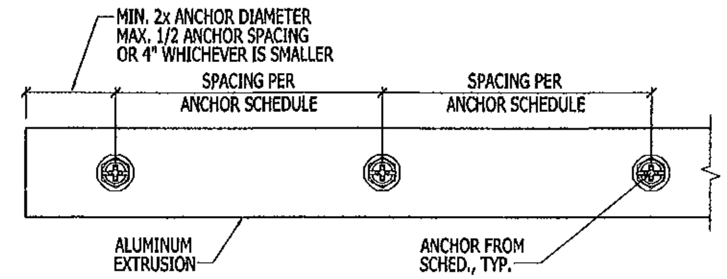
ANCHOR SCHEDULE FOR CONCRETE BLOCK

MAXIMUM FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

ANCHOR TYPE & MINIMUM CONCRETE REQUIREMENTS	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	N/A															MIN. 4" EDGE DISTANCE														
		SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)					SPANS UP TO 5'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)				
		CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
5/16"ø ITW BUILDEX TAPCON XL WITH 1-1/4" MIN. EMBEDMENT	36.0																16	16	16	14	16	16	16	5	8	10	16	16		7	9
	48.0																16	16	8	11	14	15	15		6.25	8	12	7		5	6.25
	63.0																16	16	5	8	10	11	5		4	6.25	9			4	5
	75.0																16	16		7	9	9			4	5	9			4	5
	200.0																9			4	5	9			4	5	9			4	5

ANCHOR NOTES:

1. SEE ANCHOR NOTES ON PAGE 4 OF 5.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0410.16
Expiration Date 08/19/2013
By
Miami Dade Product Control

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revisions

no	date	by	description
0	07/08/2008	VJK	PREVIOUSLY DRAWING NO. 06-242
1	08/12/2008	VJK	COUNTY COMMENTS
2	03/15/2012	VJK	FLORIDA BUILDING CODE CHANGES

V.J. Knezevich
Professional Engineer
FL License No.: PE 0010983
MAR 15 2012

drawn by: ARV | scale: AS NOTED
date: 07/08/2008
drawing no. **08-133**
sheet 5 of 5